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MULTI-LAYER ENGINE USING GENERIC CONTROLS FOR OPTIMAL ROUTING SCHEME

ABSTRACT OF THE INVENTION

A scheduling engine for optimally scheduling the allocation of a set of service providers to a defined set of service points includes a service point 10 mechanism for collecting and processing a plurality of service point data elements, and a service provider mechanism for collecting and processing a plurality of service provider data elements. A generic multi-layer 15 scheduling mechanism generates allocation schedules for allocating the set of service providers to the set of service points irrespective of nonlinearity or dependence amongst said plurality of service point data elements and said plurality of service providers data 20 elements. The generic multi-layer scheduling mechanism employs a heuristic algorithm for use of an objective function relating to said plurality of service point data elements and said plurality of provider data elements and said control parameters that describe what is important to the customer and generating therefrom an optimal allocation schedule.